

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
6 May 2005 (06.05.2005)

PCT

(10) International Publication Number  
**WO 2005/040737 A1**

(51) International Patent Classification<sup>7</sup>: **G01G 13/02**,  
13/08, B65G 27/16

(21) International Application Number:  
PCT/GB2004/004318

(22) International Filing Date: 7 October 2004 (07.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0324146.0 15 October 2003 (15.10.2003) GB

(71) Applicant (for all designated States except US):  
**WRIGHT MACHINERY LIMITED** [GB/GB]; Stone-  
field Way, South Ruislip, Middlesex HA4 0JU (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **MOULSDALE, Tim-  
othy, John, Blackwall** [GB/GB]; 49 Goddington Road,  
Bourne End, Bucks SL8 5TU (GB).

(74) Agent: **ELKINGTON AND FIFE LLP**; Prospect House,  
8 Pembroke Road, Sevenoaks, Kent TN13 1XR (GB).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

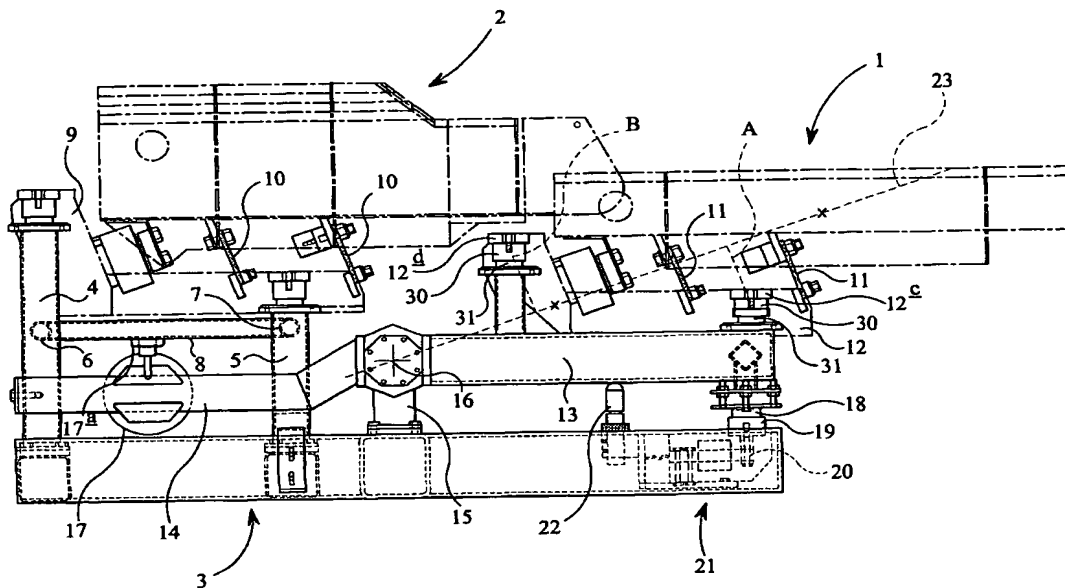
(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: VIBRATORY CONVEYOR



(57) Abstract: A vibratory conveyor is provided which comprises a machine frame, a twoarmed lever mounted on the frame for pivotal movement about an axis, a reaction base mounted on one arm of the lever, and a conveyor element for conveying a product from one end to the other. Leaf springs are connected between the conveyor element and the reaction base and arranged to vibrate so as to cause the conveyor element to convey product. A sensor is disposed between the said one arm and the machine frame for sensing the weight of product on the conveyor element. The lever and conveyor element are so arranged that a line connecting the axis of pivotal movement of the lever and the centre of mass of the conveyor element runs perpendicular to the length of the leaf springs.